

Creek washed around bridge end

Whitfield Bridge Site



gravel bar

Eroded Bank

View looking downstream to Whitfield Bridge

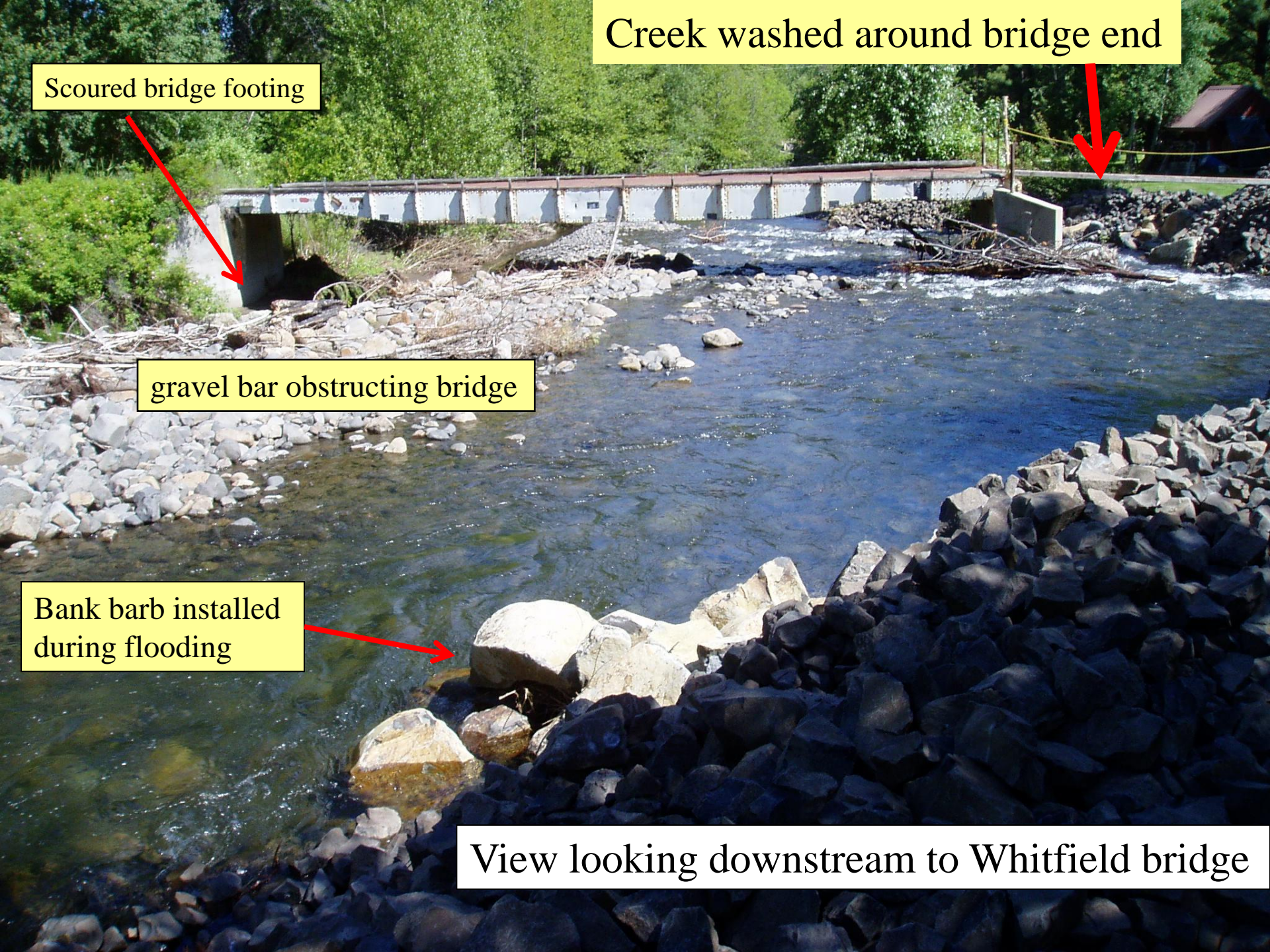
Creek washed around bridge end

Scoured bridge footing

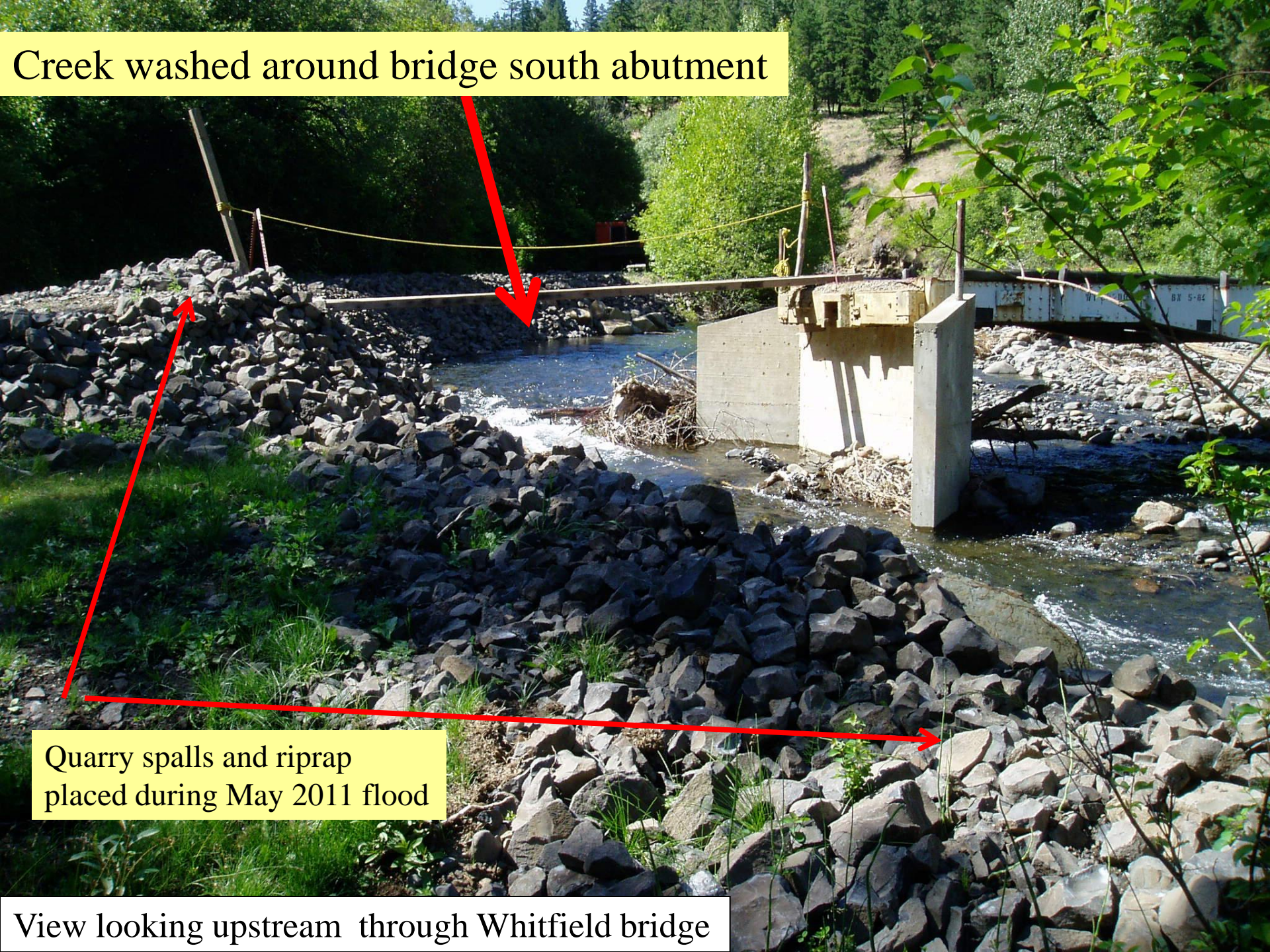
gravel bar obstructing bridge

Bank barb installed
during flooding

View looking downstream to Whitfield bridge



Creek washed around bridge south abutment




Quarry spalls and riprap
placed during May 2011 flood

View looking upstream through Whitfield bridge



gravel bar

View looking downstream to Whitfield bridge

A photograph showing a wide river with a large gravel bar in the middle. The gravel bar is composed of many dark, rounded stones and is covered with dry sticks and branches. In the background, a bridge with a metal railing spans the river. The water is flowing around the gravel bar, creating some white rapids. The surrounding area is lush with green trees and vegetation.

gravel bar obstructs bridge
(existing bridge clearance over
Gravel bar is approximately 3.5 ft)

View looking downstream to Whitfield bridge

gravel bar obstructing bridge



View looking north across upstream face of Whitfield bridge



Gravel bar to within 3 1/2 feet of bridge beams

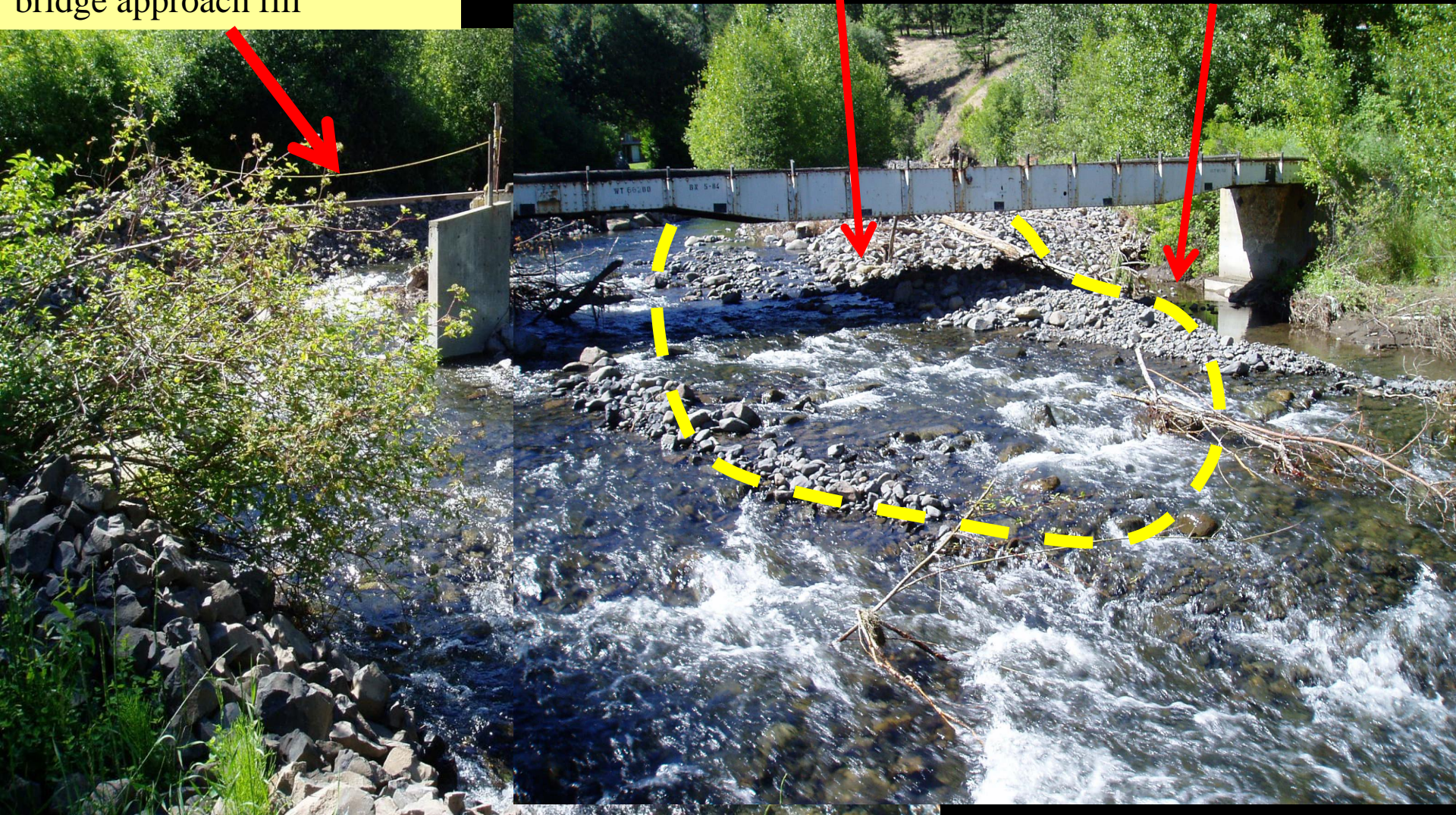
3.5-ft

View looking north across gravel bar at upstream face of Whitfield bridge

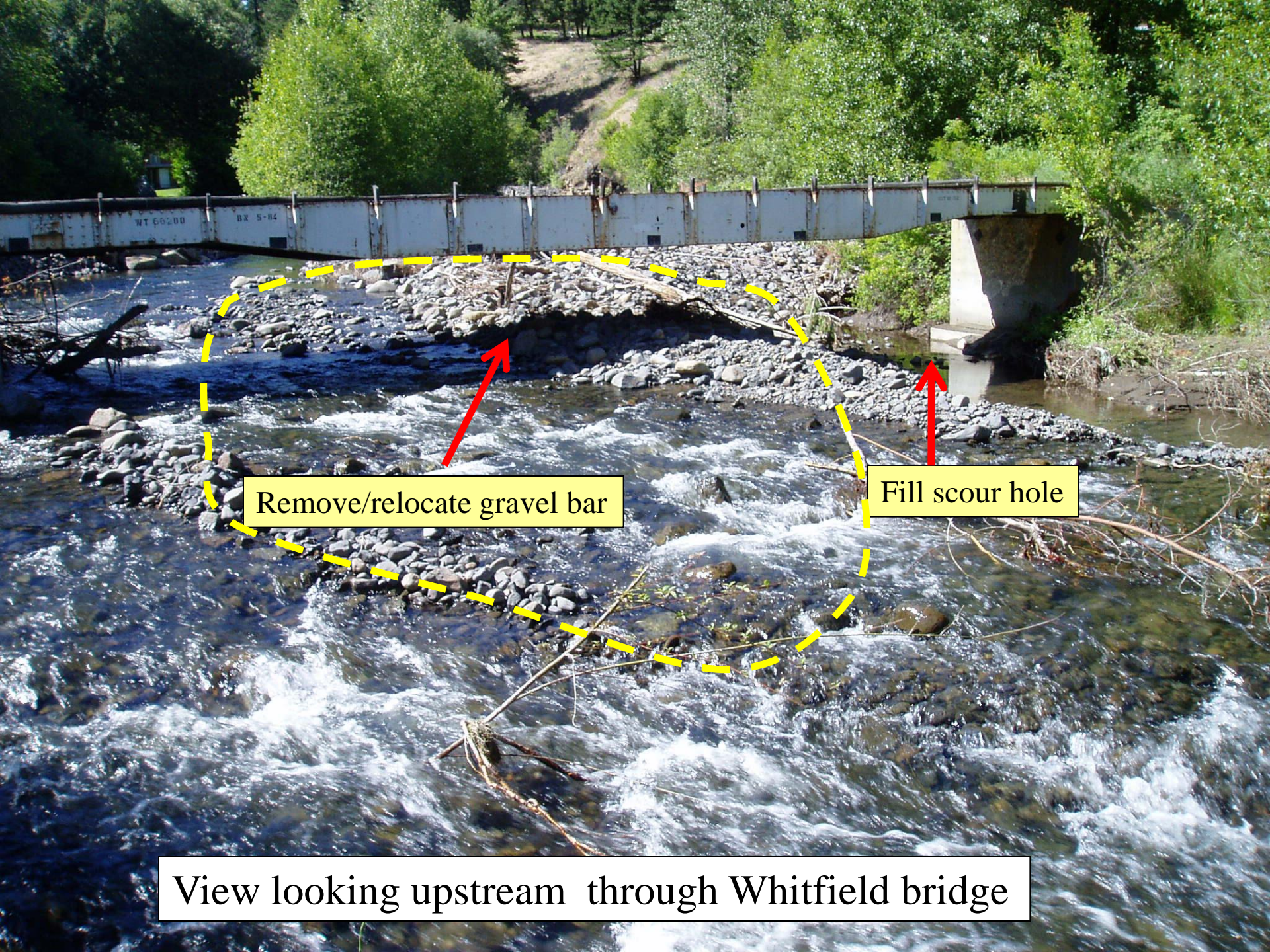
Creek washed around bridge.
Reconstruct bank and replace
bridge approach fill

Remove gravel bar

Fill scour hole




View looking upstream through Whitfield bridge



Remove/relocate gravel bar

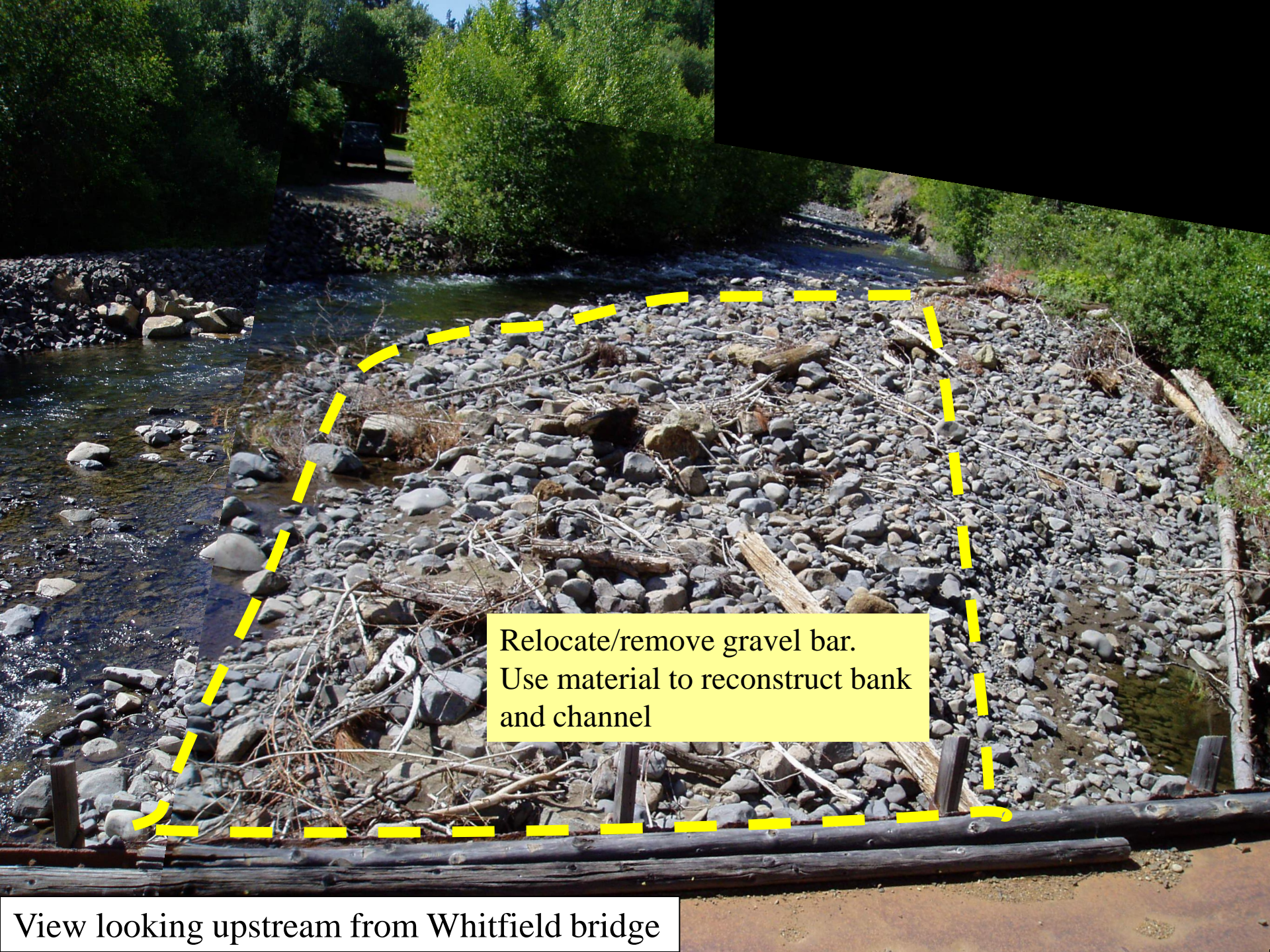
Fill scour hole

View looking upstream through Whitfield bridge

A photograph of a river with a large gravel bar in the middle. The river is flowing from the left towards the background. The gravel bar is composed of many grey and brown stones of various sizes, some with small plants growing on them. Several large, weathered logs are scattered across the bar and along the right bank. The right bank is covered with dense green trees and bushes. In the foreground, a wooden log is partially visible, likely part of a bridge structure. The water is dark and appears to be flowing over the rocks.

gravel bar obstructs bridge

View looking upstream from Whitfield bridge



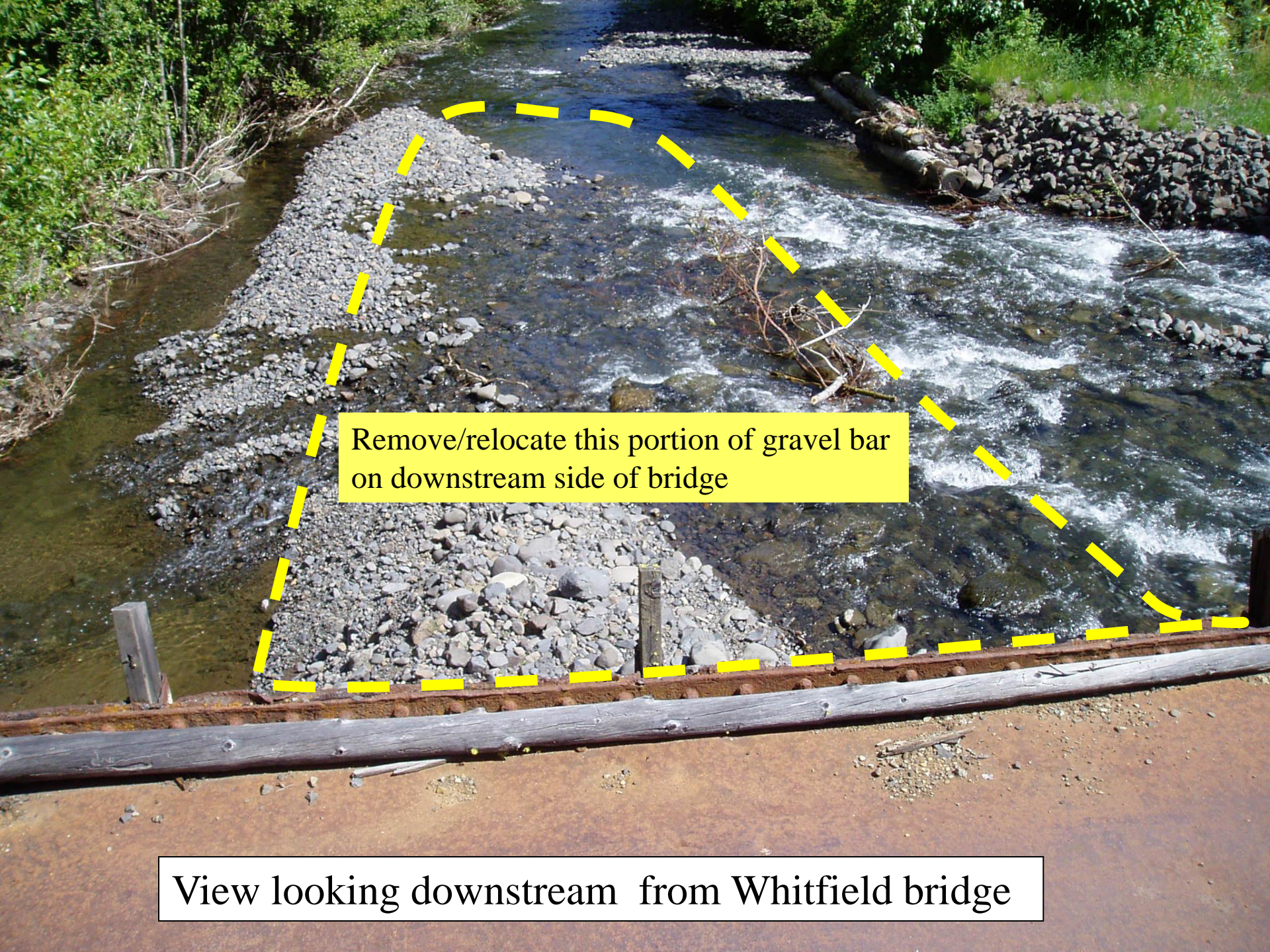
Relocate/remove gravel bar.
Use material to reconstruct bank
and channel

View looking upstream from Whitfield bridge



Remove/relocate this portion of gravel bar under bridge
and immediately upstream and downstream

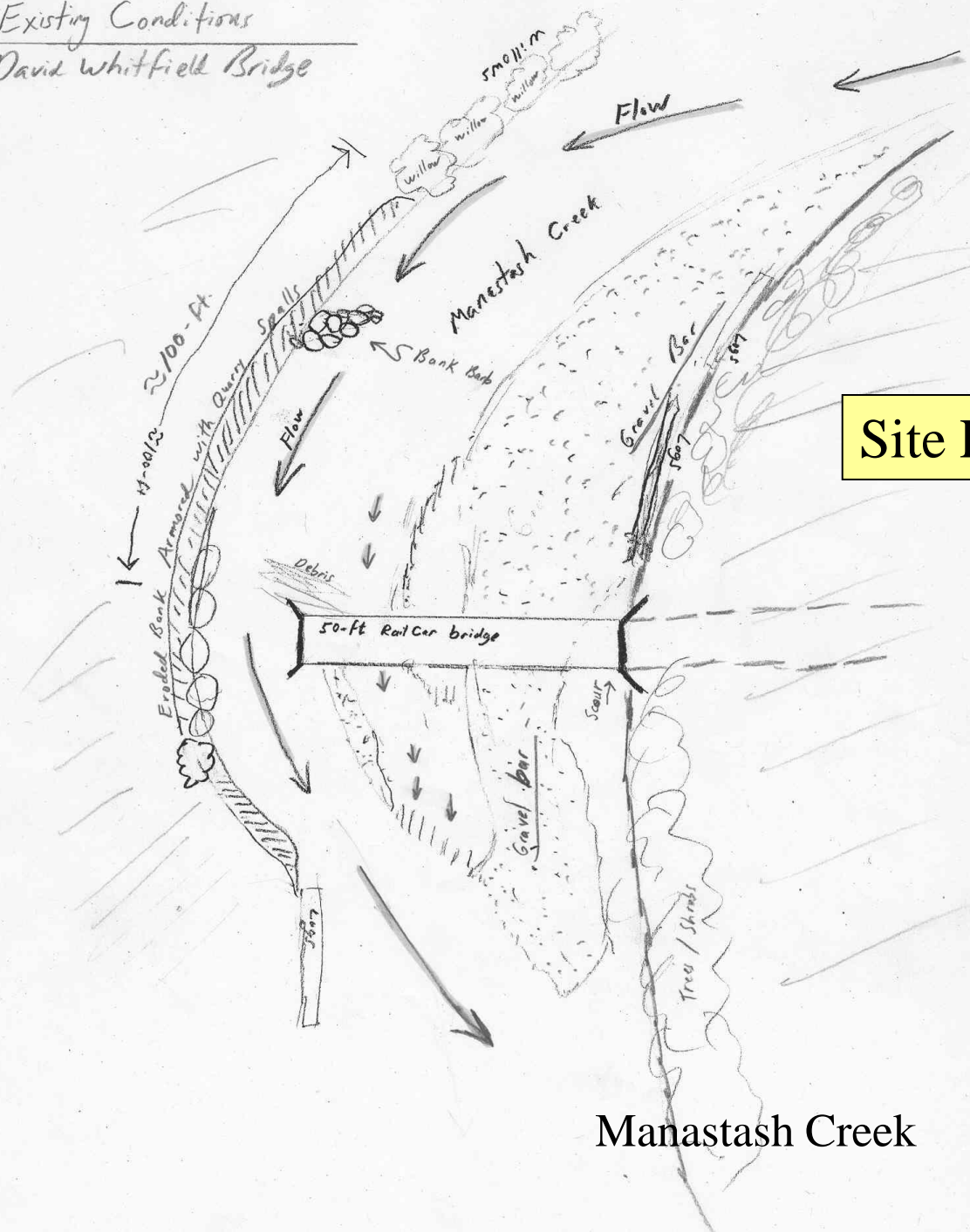
View looking south across Whitfield bridge, downstream side



Remove/relocate this portion of gravel bar
on downstream side of bridge

View looking downstream from Whitfield bridge

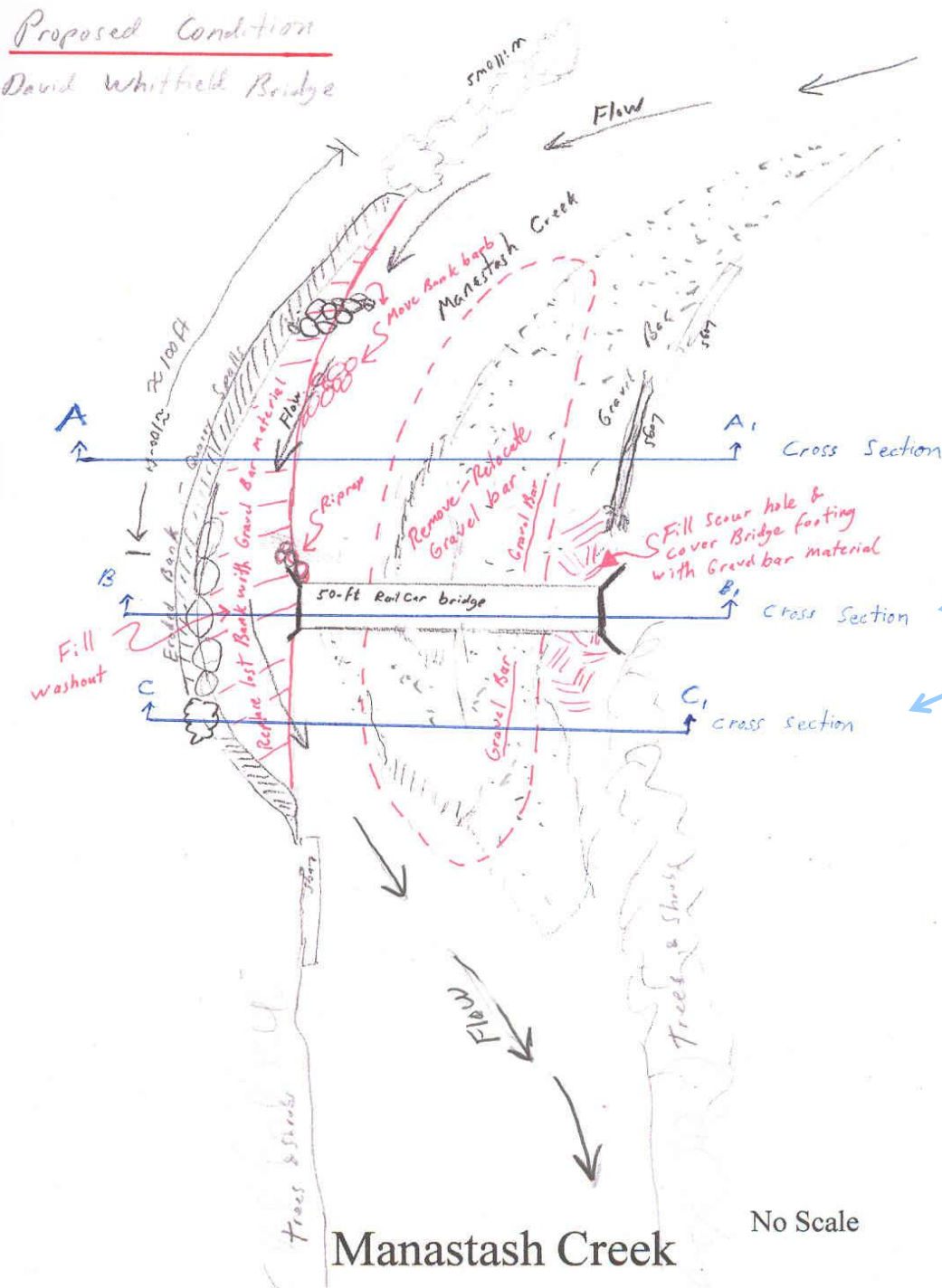
Existing Conditions
David Whitfield Bridge



Site Plan – Existing Conditions

Manastash Creek

Proposed Condition
David Whittfield Bridge



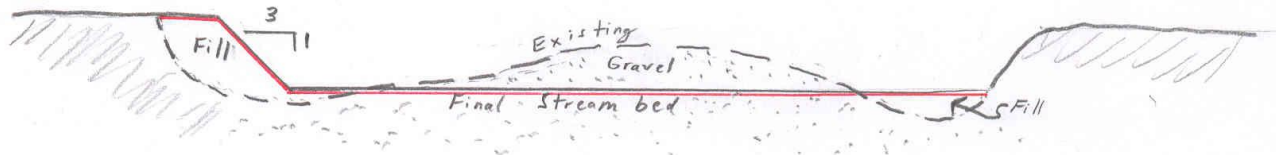
Site Plan – Proposed Work

Note Cross-sections

Cross-Sections, Conceptual Drawings, View looking upstream
Manastash Creek - Snyder-Whitfield Site

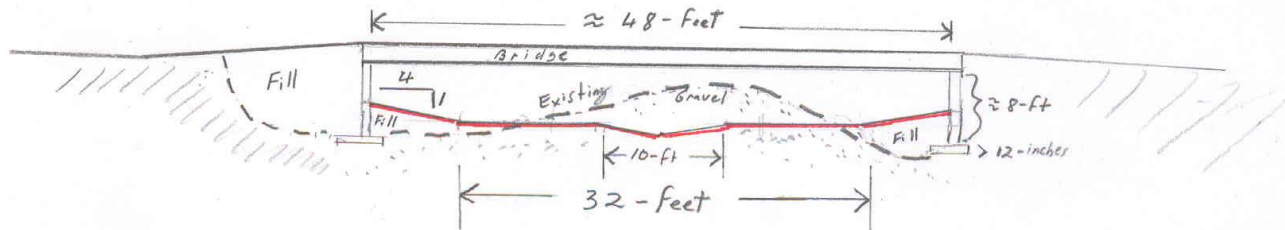
X-Section A-A₁

No Scale.



X-Section B-B₁

No Scale



X-Section C-C₁

No Scale

